

U.S. Serial No. 10/074,870 – Bradley
Art Unit 1761 – Attorney Docket WARF-32521
Amendment in Response to August 6, 2004 Office Action
Page 2 of 21

Amendments to the Claims

1. (Previously Presented) A method of making cheese, comprising:
 - (a) processing a previous lot of milk to produce cheese curds and whey;
 - (b) removing the cheese curds from the whey, wherein the whey includes fine particles of cheese curd;
 - (c) collecting the fine particles of cheese curd from the whey; and
 - (d) adding the fine particles of cheese curd from the previous lot of milk into a subsequent lot of milk;
 - (e) mixing the fine particles of cheese curd from the previous lot of milk into the subsequent lot of milk to form the cheese so as to mechanically reduce the particle size of at least a plurality of the fine particles of cheese curd; and
 - (f) pasteurizing the subsequent lot of milk.
2. (Previously Presented) A method of claim 1, wherein the mixing step comprises increasing the total surface area of the fine particles of cheese curd.
3. (Canceled)

U.S. Serial No. 10/074,870 – Bradley
Art Unit 1761 – Attorney Docket WARF-32521
Amendment in Response to August 6, 2004 Office Action
Page 3 of 21

4. (Original) A method of claim 1, wherein the mixing step comprises at least partially solubilizing the fine particles of cheese curd from the previous lot of milk into the subsequent lot of milk.
5. (Original) A method of claim 4, wherein the mixing step comprises inhibiting the fine particles of cheese curd from settling out of the subsequent lot of milk.
6. (Original) A method of claim 1, wherein the mixing step comprises inhibiting the fine particles of cheese curd from settling out of the subsequent lot of milk.
7. (Original) A method of claim 1, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk using a colloid mill.
8. (Original) A method of claim 7, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk with a colloid mill set at from 0.01 inches to 0.04 inches.
9. (Original) A method of claim 1, wherein the mixing step comprises mixing without demineralization of the fine particles.

MAD/100359.1

U.S. Serial No. 10/074,870 – Bradley
Art Unit 1761 – Attorney Docket WARF-32521
Amendment in Response to August 6, 2004 Office Action
Page 4 of 21

10. (Original) A method of claim 1, wherein the fine particles of cheese curd are collected using a fine saver.
11. (Original) A method of claim 10, wherein the fine particles of cheese curd are collected with a revolving, static, or a vibrating sieve type of fine saver.
12. (Original) A method of claim 1, wherein the previous lot of milk is processed with an acid.
13. (Original) A method of claim 12, wherein the previous lot of milk is processed with a direct addition of an acid or with a bacterial culture that ferments lactose to lactic acid.
14. (Original) A method of claim 12, further comprising washing the curds with a wash water, wherein the wash water contains fine particles of cheese curd; and collecting the fine particles of cheese curd from the wash water.
15. (Original) A method of claim 1, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk using a homogenizer.

MAD/100359.1

U.S. Serial No. 10/074,870 – Bradley
Art Unit 1761 – Attorney Docket WARF-32521
Amendment in Response to August 6, 2004 Office Action
Page 5 of 21

16. (Original) A method of claim 15, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk with the homogenizer being a two-stage homogenizer that is set at between about 500 and about 3500 psi.

17. (Original) A method of claim 16, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk with the homogenizer being a two-stage homogenizer that is set at about 2000 psi.

18. (Original) A method of claim 1, wherein the previous lot of milk is processed using rennet.

19. (Previously Presented) A method of claim 1, further comprising separating cream from the subsequent lot of milk, wherein the fine particles of cheese curd are added after the subsequent lot of milk has been separated.

20. (Previously Presented) A method of claim 1, wherein the fine particles of cheese curd from the previous lot of milk are added to the subsequent lot of milk after the step of pasteurizing the subsequent lot of milk.

MAD/100359.1

U.S. Serial No. 10/074,870 – Bradley
Art Unit 1761 – Attorney Docket WARF-32521
Amendment in Response to August 6, 2004 Office Action
Page 6 of 21

21. (Original) A method of claim 20, wherein the fine particles of cheese curd from the previous lot of milk are mixed into the subsequent lot of milk with a colloid mill.
22. (Original) A method of claim 1, wherein the fine particles of cheese curd from the previous lot of milk are added into the subsequent lot of milk prior to the step of pasteurizing the subsequent lot of milk.
23. (Previously Presented) A method of claim 22, further comprising, prior to the step of pasteurizing the subsequent lot of milk, diverting the subsequent lot of milk around a separator to separate cream from the subsequent lot of milk.
24. (Original) A method of claim 22, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk with a homogenizer.
25. (Original) A method of claim 1, further comprising separating cream from the subsequent lot of milk, wherein the fine particles of cheese curd from the previous lot of milk are added after the separating of the subsequent lot of milk and prior to the pasteurizing of the subsequent lot of milk.

U.S. Serial No. 10/074,870 – Bradley
Art Unit 1761 – Attorney Docket WARF-32521
Amendment in Response to August 6, 2004 Office Action
Page 7 of 21

26. (Original) A method of claim 25, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk with a homogenizer.

27. (Original) A method of claim 1, further comprising, after the mixing step, processing the subsequent lot of milk to form cheese curds and whey of the subsequent lot of milk, wherein the fine particles of cheese curd from the previous lot of milk are incorporated into the matrix of the cheese curd of the subsequent lot of milk.

28. (Original) A method of making cheese, comprising:

- (a) processing a previous lot of milk to produce cheese curds and whey;
- (b) removing the cheese curds from the whey, wherein the whey includes fine particles of cheese curd;
- (c) collecting the fine particles of cheese curd from the whey; and
- (d) adding the fine particles of cheese curd from the previous lot of milk into a subsequent lot of milk;
- (e) mixing the fine particles of cheese curd from the previous lot of milk into the subsequent lot of milk to form the cheese; and
- (f) washing the curds with a wash water, wherein the wash water contains fine particles of cheese curd; and collecting the fine particles of cheese curd from the wash water.

U.S. Serial No. 10/074,870 – Bradley
Art Unit 1761 – Attorney Docket WARF-32521
Amendment in Response to August 6, 2004 Office Action
Page 8 of 21

Claims 29-37 (Canceled)

38. (Previously Presented) A method of claim 9, wherein the mixing step comprises mixing without decalcification of the fine particles.

39. (Previously Presented) A method of making cheese, comprising:

- (a) processing a previous lot of milk to produce cheese curds and whey;
- (b) removing the cheese curds from the whey, wherein the whey includes fine particles of cheese curd;
- (c) collecting the fine particles of cheese curd from the whey; and
- (d) adding the fine particles of cheese curd from the previous lot of milk into a subsequent lot of milk; and
- (e) mixing the fine particles of cheese curd from the previous lot of milk into the subsequent lot of milk to form the cheese, wherein the mixing step comprises mixing without demineralization of the fine particles.

40. (Previously Presented) A method of claim 39, wherein the mixing step comprises mixing without decalcification of the fine particles.

MAD/100359.1

U.S. Serial No. 10/074,870 – Bradley
Art Unit 1761 – Attorney Docket WARF-32521
Amendment in Response to August 6, 2004 Office Action
Page 9 of 21

41. (Previously Presented) A method of making cheese, comprising:
- (a) processing a previous lot of milk to produce cheese curds and whey;
 - (b) removing the cheese curds from the whey, wherein the whey includes fine particles of cheese curd;
 - (c) collecting the fine particles of cheese curd from the whey; and
 - (d) adding the fine particles of cheese curd from the previous lot of milk into a subsequent lot of milk; and
 - (e) mixing the fine particles of cheese curd from the previous lot of milk into the subsequent lot of milk to form the cheese, wherein the mixing step comprises mixing without decalcification of the fine particles.
42. (Previously Presented) A method of making cheese, comprising:
- (a) processing a previous lot of milk to produce cheese curds and whey;
 - (b) removing the cheese curds from the whey, wherein the whey includes fine particles of cheese curd;
 - (c) collecting the fine particles of cheese curd from the whey; and
 - (d) adding the fine particles of cheese curd from the previous lot of milk into a subsequent lot of milk; and

MAD/100339.1

U.S. Serial No. 10/074,870 – Bradley
Art Unit 1761 – Attorney Docket WARF-32521
Amendment in Response to August 6, 2004 Office Action
Page 10 of 21

(e) mixing the fine particles of cheese curd from the previous lot of milk into the subsequent lot of milk to form the cheese, wherein the mixing step comprises mechanically reducing the particle size of at least a plurality of the fine particles of cheese curd.

43. (Previously Presented) A method of claim 42, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk using a colloid mill.

44. (Previously Presented) A method of claim 42, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk with a colloid mill set at from 0.01 inches to 0.04 inches.

45. (Previously Presented) A method of claim 42, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk using a homogenizer.

46. (Previously Presented) A method of claim 45, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk with the homogenizer being a two-stage homogenizer that is set at between about 500 and about 3500 psi.

U.S. Serial No. 10/074,870 – Bradley
Art Unit 1761 – Attorney Docket WARF-32521
Amendment in Response to August 6, 2004 Office Action
Page 11 of 21

47. (Previously Presented) A method of claim 46, wherein the fine particles of cheese curd are mixed into the subsequent lot of milk with the homogenizer being a two-stage homogenizer that is set at about 2000 psi.

48. (Previously Presented) A method of making cheese, comprising:

- (a) processing a previous lot of milk to produce cheese curds and whey;
- (b) removing the cheese curds from the whey, wherein the whey includes fine particles of cheese curd;
- (c) collecting the fine particles of cheese curd from the whey; and
- (d) adding the fine particles of cheese curd from the previous lot of milk into a subsequent lot of milk; and
- (e) integrating the fine particles of cheese curd from the previous lot of milk into the subsequent lot of milk to form the cheese so as to increase the total surface area of the fine particles of cheese curd in the subsequent lot of milk.